

Features:

1. Ultra-wide input voltage range (300-1500VDC)
2. Size 50*125.1*110mm
3. DIN rail TS-35/7.5 or 15 mountable
4. Built-in DC OK relay contact
5. Built-in redundancy function (optional)
6. Protection type: short circuit/over temperature/over load/over voltage
7. Operating temperature range: -30°C to +70°C
8. 3000V isolation voltage
9. 100% high temperature burn-in and function test
10. 3 years warranty



3 years
Warranty

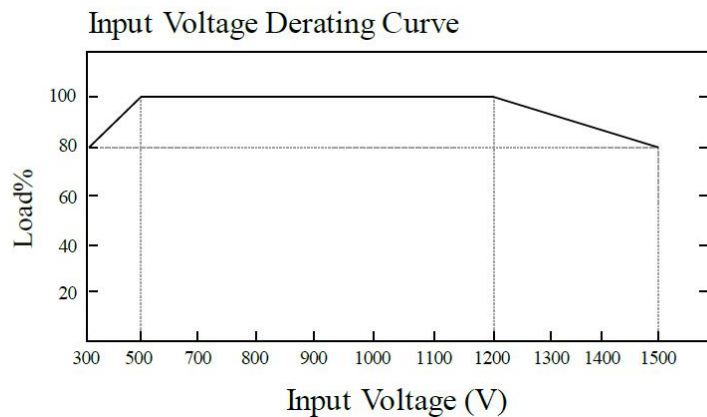
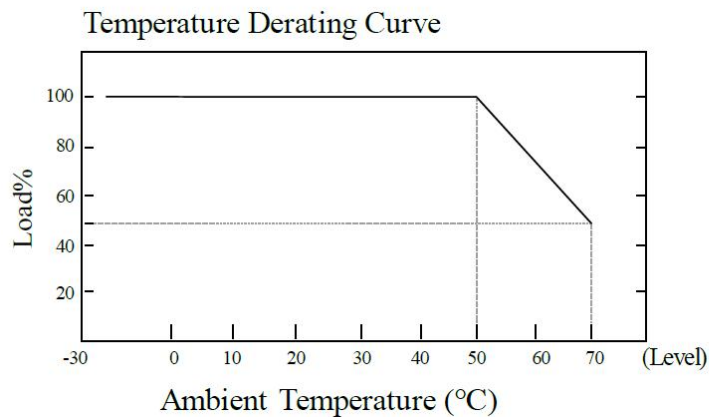
Designed for Photovoltaic power generation, Renewable energy system, High voltage frequency conversion, Industrial control system, Semiconductor fabrication equipment, Electro-mechanical apparatus, DC bus centralized application, Energy storage system(ESS), Charging pile, Third rail.

Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Voltage Adjustable Range (V)	Output Current (A)	Ripple & Noise (mVp-p)	Efficiency (%)
PV-SDM240-900S12	900VDC (300-1500)	240	12	11-14	20	100	92
PV-SDM240-900S24		240	24	23-27	10	150	93
PV-SDM240-900S48		240	48	46-52	5	150	94

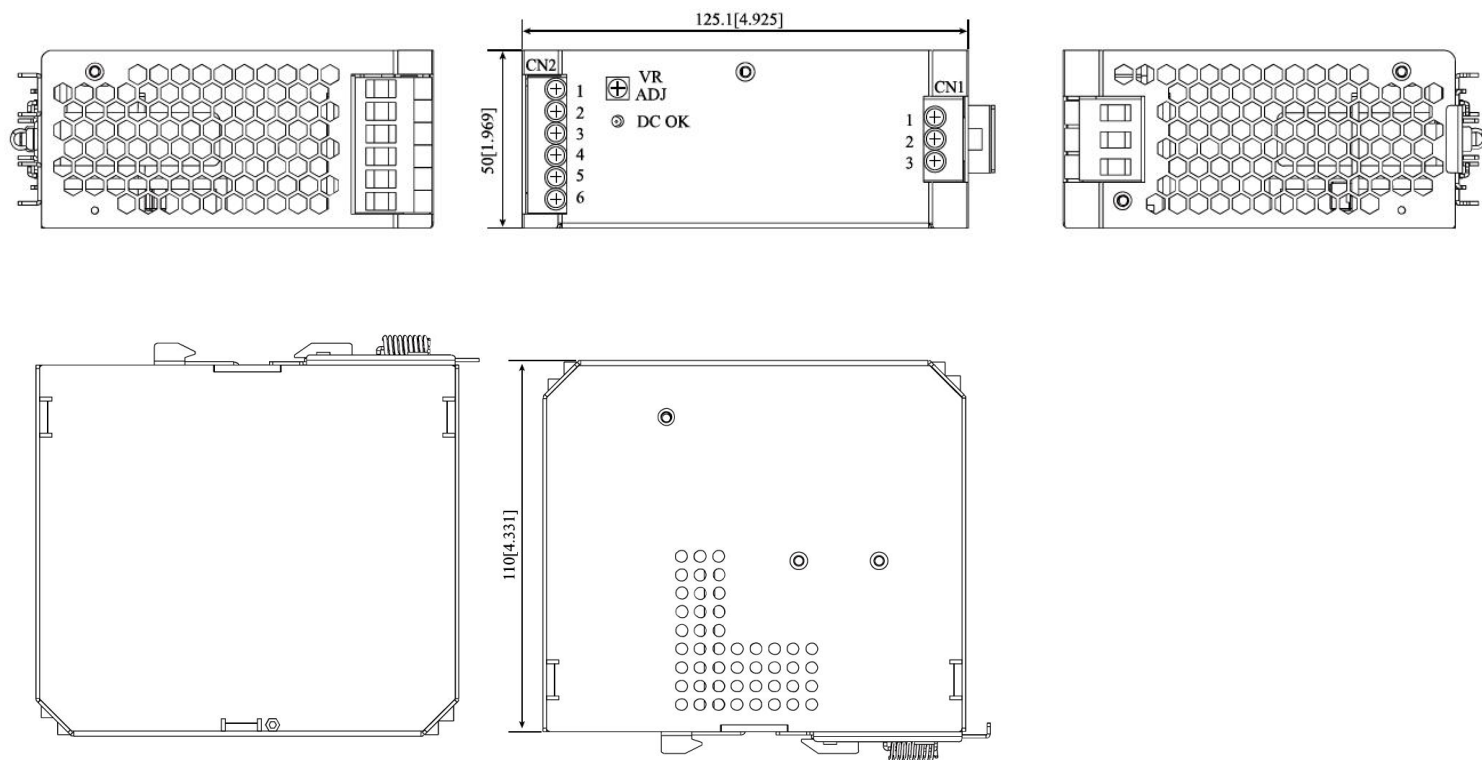
Specifications

OUTPUT	Voltage Tolerance	±2.0%			
	Line Regulation	±1.0%			
	Load Regulation	±1.0%			
	Setup, Rise Time (Typ.)	3000ms, 100ms/900VDC at full load			
	Hold Up Time (Typ.)	30ms/900VDC at full load			
INPUT	Voltage Range	300-1500VDC			
	Nominal Voltage	900VDC			
	Power Factor	PF>0.95/900VAC at full load			
	Frequency	47-63Hz			
	External Fuse Recommended	T10A/250VAC			
PROTECTION	Over Load	≥110% load, recovers automatically after fault condition is removed			
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed			
	Over Temperature	Output off			
	Over Voltage	Output off			
		Voltage	12VDC	24VDC	48VDC
		Range	≤16VDC	≤30VDC	≤60VDC
ENVIRONMENT	Working Temp.	-30°C to +70°C (Refer to "Derating curve")			
	Working Humidity	20-95% RH			
	Storage Temp., Humidity	-40°C to +85°C, 10-95%RH			
	Temp. Coefficient	0.03%/ (0-50°C)			
	Vibration	10-500Hz, 2G, 10min./1cycle, 60min.each along X, Y, Z axes			
SAFETY & EMC (NOTE 3.)	Safety Standards	IEC/UL62368-1, GB4943.1-2011			
	Isolation Voltage	I/P-O/P: 3000VAC I/P-FG(CASE): 1500VAC O/P-FG(CASE): 500VAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: >100M Ohms/500VDC 25°C 70% RH			
	EMC Emission & Immunity	EN55011, EN55032 (CISPR32) CLASS A			
	ESD	IEC/EN 61000-4-2 level 4 Contact ±8kV/Air ±15kV			
	RF	IEC/EN 61000-4-3 level 4			
	EFT	IEC/EN 61000-4-4 level 4 4kV			
	Surge	IEC/EN 61000-4-5 level 4 2kV			
OTHERS	MTBF	130K hrs min. MIL-HDBK-217F (25°C)			
	Dimension	50*125.1*110mm (W*H*D)			
	Weight	1000g			
	Carton	360*300*250mm			
NOTE	1. All parameters not specially mentioned are measured at nominal input, rated load and 25°C of ambient temperature.				
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.				
	3. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives.				

Derating Curve

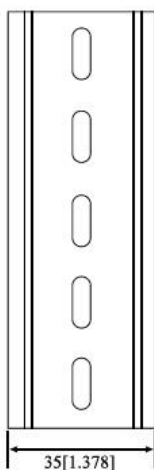


Dimensions & Function

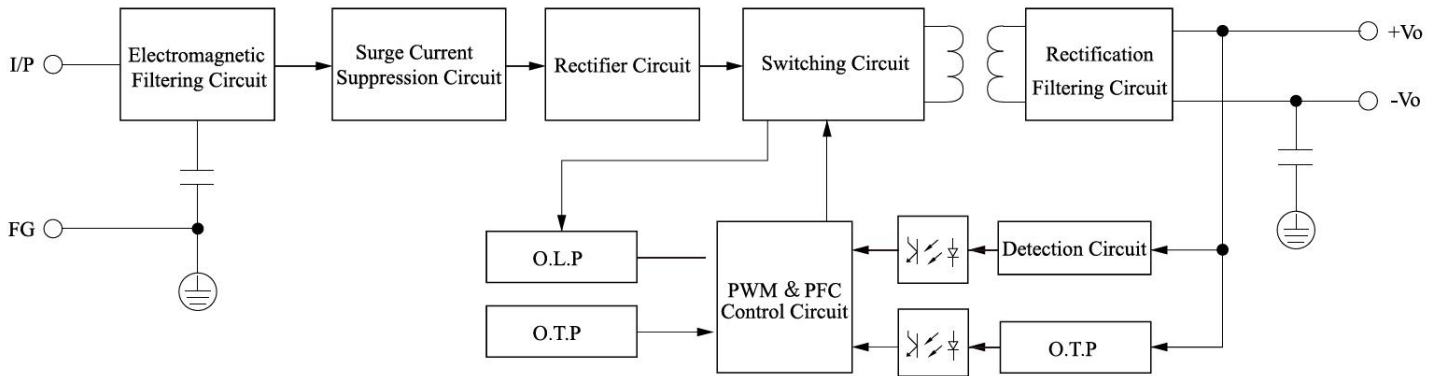


TS35/7.5 OR TS35/15

Pin	Function	
	CN1	CN2
1	DC+	DC output +V
2	FG	DC output +V
3	DC-	DC output -V
4	/	DC output -V
5	/	relay contact
6	/	relay contact



Product Schematic



Notes:

1. If the product works under the minimum required load, it cannot guarantee that the performance of the product complies with all the performance indicators in this manual;
2. The maximum capacitive load is tested under the input voltage range and full load condition;
3. Unless otherwise stated, all indexes in this manual are measured at $T_a=25^{\circ}\text{C}$, humidity $<75\%\text{RH}$, nominal input voltage and rated output load;
4. All index testing methods in this manual are based on the enterprise standards of the company;
5. Our company can provide product customization, specific needs can directly contact our technical staff;
6. AMCHARD reserves the right to make changes to the product at any time without notice.

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